U.S. Department of Commerce
National Institute of Standards and Technology
Gaithersburg, MD 20899

Certificate Number: 96-113

National Type Evaluation Program

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Load Cell, Electronic
Model: FHN-5-XY*
n_{max}: 5000 e_{min}: 1 lb
Capacity: 5 000 lb
Platform: 3' x 3' to 5' x 7' (up to & including 35 sq ft)

Accuracy Class: III

Submitted by:

Cardinal Scale Manufacturing Company
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Standard Features and Options

*The "XY" suffix in the model number designates the platform size. "X" indicates the platform width in feet (3' to 5') and "Y" indicates the platform length in feet (3' to 7').

The maximum platform area shall not exceed 35 sq ft.

Four-2500 lb Cardinal Model SB-2500S load cells (Certificate of Conformance No. 87-059)

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: August 14, 1996

Gilbert M. Ugiansky, Ph.D.
Chief, Office of Weights and Measures
Issue Date: December 12, 1996

Cardinal Scale Manufacturing Company
Weighing/Load Receiving Element
Model: FHN-5

Application: The weighing/load receiving element may be used for general purpose weighing applications when interfaced with a certified indicating element.

Identification: The engraved identification badge is riveted to the side of the platform, near the load cell junction box.

Sealing: The load cell junction box can be sealed with a wire security seal threaded through two screws in the cover.

Test Conditions: A 5000-lb, 5' x 7', steel weighing element was tested at the manufacturer's plant. The device was interfaced with a Cardinal Detecto Model 738 indicator (Certificate of Conformance No. 86-035A3). Several increasing/decreasing load and corner/shift tests were conducted during the initial evaluation. Similar tests were conducted after 20 days of use.

The results of the evaluation indicate that the device complies with all applicable requirements of NIST Handbook 44.

Type Evaluation Criteria Used: NIST Handbook 44, 1996 Edition

Tested By: A. P. Buié (MD), C. Carter (OK)